PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 10 FEB 2006

A P H H C C			WIPO PCT							
Applicant's or agent's file referer 30A-95216	FOR FURTHER									
International application No. PCT/EP2005/002806	International filing da 16.03.2005	ate (day/month/year)	Priority date (day/month/year) 17.03.2004							
International Patent Classificatio G06F3/033	n (IPC) or national classification ar	nd IPC								
Applicant 3DCONNEXION GMBH e	t al.									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 										
2. This REPORT consists of a total of 5 sheets, including this cover sheet.										
3. This report is also accompanied by ANNEXES, comprising:										
a. 🗆 sent to the appli	a. Sent to the applicant and to the International Bureau) a total of sheets, as follows:									
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).										
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.										
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).										
4. This report contains ind	4. This report contains indications relating to the following items:									
🛛 Box No. I Basis	of the opinion									
☐ Box No. II Priorit	ty									
☐ Box No. III Non-e	stablishment of opinion with re	egard to novelty, inventi	d to novelty, inventive step and industrial applicability							
☐ Box No. IV Lack (
⊠ Box No. V Reaso applic	oned statement under Article 3 ability; citations and explanatio	5(2) with regard to nove ons supporting such stat	lty, inventive step or industrial ement							
	in documents cited									
☐ Box No. VII Certai										
☐ Box No. VIII Certai	☐ Box No. VIII Certain observations on the international application									
Date of submission of the deman	d	Date of completion of	this report							
30.06.2005		09.02.2006								
Name and mailing address of the preliminary examining authority:	international	Authorized Officer	Angeles Patentery.							
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/002806

_	Вох	No. I	Basis of the	report			-				
1.	With filed	With regard to the language , this report is based on the international application in the language in which it was illed, unless otherwise indicated under this item.									
		which i □ inte □ pub	port is based on the language of the language	e of a transla ch (under Ri internationa	ation furnishe ules 12.3 and Lapplication (ed for the pu I 23.1(b)) (under Rule	rposes of:		g langua(ge ,	
2.	have	e been	I to the eleme furnished to th originally filed"	e receiving	Office in resp	onse to an					
	Des	cription	, Pages								
	1-13			as o	riginally filed						
	Claiı	ms, Nun	nbers								
	1-37			as o	riginally filed						
	Drav	vings, S	heets								
	1/3-3	3/3		as o	riginally filed						
		a sequ	ence listing an	d/or any rela	ated table(s)	- see Suppl	emental B	ox Relating	to Seque	ence Listin	ıg
3.		☐ the ☐ the ☐ the ☐ the ☐ the	nendments had description, pa claims, Nos. drawings, she sequence listin table(s) relate	iges ets/figs ig <i>(specify)</i> :							
4.	had Supp	not bee plemen □ the □ the □ the □ the □ the	port has been en made, since tal Box (Rule 7 description, paclaims, Nos. drawings, she sequence listing table(s) relate	they have I 70.2(c)). ages ets/figs ag <i>(specify)</i> :	oeen conside	red to go be	ndments a eyond the	nnexed to t disclosure	his report as filed, a	t and listed as indicate	d below d in the
	*	If ite	em 4 applie	s, some c	or all of	these she	ets may	be mark	ed "sup	erseded	. "

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/002806

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims No: Claims 1-37

Inventive step (IS)

Yes: Claims

1-37

No: Claims

Industrial applicability (IA)

Yes: Claims

1-37

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

- 1 Reference is made to the following document:
 - D1: US 6 225 980 B1 (STIVORIC JOHN MICHAEL ET AL) 1 May 2001 (2001-05-01)
- 2 Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document):

A device for manual input of control signals in a computer-related environment, the device comprises a base (PCB 18) for supporting the device; a first input member (dial 20) mounted on the base for rotary movement about an axis extending generally upwardly from the base, the first input member having an axial extent from an end region proximal the base to an end region distal from the base and enclosing a central space within which a sensor arrangement (cf. figure 2 in conjunction with figure 30: e.g. circuitry on the PCB 18, magnets 53, etc.) is housed for detecting and interpreting rotary movement of the first input member, the first input member having an opening at each of its proximal and distal end regions (cf. figure 2). Furthermore, the device comprises one second input member provided at or adjacent said distal end region of the first input member (cf. figures 4/5 and column 7, lines 9-13: the membrane 26 in combination with said joystick 24 or switch (not shown) represents the second input member); said second input member may be a switch which is adapted to be actuated by application of finger pressure; and rotary movement of the first input member and/or actuation of the second input member generates a corresponding control signal within the computer environment (cf. column 7, line 52 - column 8, line 4).

The subject-matter of claim 1 differs from this known device in providing at least a further second input member at or adjacent said distal end region and in that said two second input members are mounted such said rotary movement of the first input member relative to the base does not influence or alter a position of the two second input members.

Hence, the subject-matter of claim 1 is novel (Article 33(2) PCT).

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In the device according to D1, said single second input member is fixedly mounted in the center of the first input member. Accordingly, it does not change its position but rotates synchronously when the first input member executes a rotary movement.

It is not possible to arrive in an obvious and straightforward manner at the subjectmatter of claim 1 by merely adding a further second input member like a switch to the device disclosed in D1 because, in such a device, the two second input members would necessarily be positionally influenced or altered when the first member is rotated.

Hence, the subject-matter of claim 1 is considered to involve an inventive step and thus meets the requirements of Article 33 (3) PCT.

3 Claims 2-37 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.